

SEQUENCE LISTING

<110> Steinkasserer, Alexander

<120> Use of Soluble Forms of CD83 and Nucleic Acids Encoding them for the Treatment or Prevention of Diseases

<130> 032723woJH

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<160> 12

<170> PatentIn Ver. 2.1

<210> 1

<211> 618

<212> DNA

<213> Homo sapiens

<220>

<221> CDS

<222> (1)..(615)

<400> 1

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gct	ccc	gcg	acg	ccg	gag	gtg	aag	gtg	gct	tgc	tcc	gaa	gat	gtg	gac	96
Ala	Pro	Ala	Thr	Pro	Glu	Val	Lys	Val	Ala	Cys	Ser	Glu	Asp	Val	Asp	
			20					25					30			
ttg	ccc	tgc	acc	gcc	ccc	tgg	gat	ccg	cag	gtt	ccc	tac	acg	gtc	tcc	144
Leu	Pro	Cys	Thr	Ala	Pro	Trp	Asp	Pro	Gln	Val	Pro	Tyr	Thr	Val	Ser	
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tgg	gtc	aag	tta	ttg	gag	ggt	ggt	gaa	gag	agg	atg	gag	aca	ccc	cag	192
Trp	Val	Lys	Leu	Leu	Glu	Gly	Gly	Glu	Glu	Arg	Met	Glu	Thr	Pro	Gln	
	50					55					60					
gaa	gac	cac	ctc	agg	gga	cag	cac	tat	cat	cag	aag	ggg	caa	aat	ggt	240
Glu	Asp	His	Leu	Arg	Gly	Gln	His	Tyr	His	Gln	Lys	Gly	Gln	Asn	Gly	
65					70					75					80	
tct	ttc	gac	gcc	ccc	aat	gaa	agg	ccc	tat	tcc	ctg	aag	atc	cga	aac	288
Ser	Phe	Asp	Ala	Pro	Asn	Glu	Arg	Pro	Tyr	Ser	Leu	Lys	Ile	Arg	Asn	
				85					90					95		
act	acc	agc	tgc	aac	tcg	ggg	aca	tac	agg	tgc	act	ctg	cag	gac	ccg	336
Thr	Thr	Ser	Cys	Asn	Ser	Gly	Thr	Tyr	Arg	Cys	Thr	Leu	Gln	Asp	Pro	
			100					105					110			
gat	ggg	cag	aga	aac	cta	agt	ggc	aag	gtg	atc	ttg	aga	gtg	aca	gga	384
Asp	Gly	Gln	Arg	Asn	Leu	Ser	Gly	Lys	Val	Ile	Leu	Arg	Val	Thr	Gly	
		115					120					125				
tgc	cct	gca	cag	cgt	aaa	gaa	gag	act	ttt	aag	aaa	tac	aga	gcg	gag	432
Cys	Pro	Ala	Gln	Arg	Lys	Glu	Glu	Thr	Phe	Lys	Lys	Tyr	Arg	Ala	Glu	
	130					135					140					
att	gtc	ctg	ctg	ctg	gct	ctg	gtt	att	ttc	tac	tta	aca	ctc	atc	att	480
Ile	Val	Leu	Leu	Leu	Ala	Leu	Val	Ile	Phe	Tyr	Leu	Thr	Leu	Ile	Ile	
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ttc act tgt aag ttt gca cgg cta cag agt atc ttc cca gat ttt tct 528
 Phe Thr Cys Lys Phe Ala Arg Leu Gln Ser Ile Phe Pro Asp Phe Ser
 165 170 175

aaa gct ggc atg gaa cga gct ttt ctc cca gtt acc tcc cca aat aag 576
 Lys Ala Gly Met Glu Arg Ala Phe Leu Pro Val Thr Ser Pro Asn Lys
 180 185 190

cat tta ggg cta gtg act cct cac aag aca gaa ctg gta tga 618
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 195 200 205

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 <212> PRT
 <213> Homo sapiens

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 Leu Pro Cys Thr Ala Pro Trp Asp Pro Gln Val Pro Tyr Thr Val Ser
 35 40 45
 Trp Val Lys Leu Leu Glu Gly Gly Glu Glu Arg Met Glu Thr Pro Gln
 50 55 60
 Glu Asp His Leu Arg Gly Gln His Tyr His Gln Lys Gly Gln Asn Gly
 65 70 75 80
 Ser Phe Asp Ala Pro Asn Glu Arg Pro Tyr Ser Leu Lys Ile Arg Asn
 85 90 95
 Thr Thr Ser Cys Asn Ser Gly Thr Tyr Arg Cys Thr Leu Gln Asp Pro
 100 105 110
 Asp Gly Gln Arg Asn Leu Ser Gly Lys Val Ile Leu Arg Val Thr Gly
 115 120 125
 Cys Pro Ala Gln Arg Lys Glu Glu Thr Phe Lys Lys Tyr Arg Ala Glu
 130 135 140
 Ile Val Leu Leu Leu Ala Leu Val Ile Phe Tyr Leu Thr Leu Ile Ile
 145 150 155 160
 Phe Thr Cys Lys Phe Ala Arg Leu Gln Ser Ile Phe Pro Asp Phe Ser
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 Lys Ala Gly Met Glu Arg Ala Phe Leu Pro Val Thr Ser Pro Asn Lys
 180 185 190
 His Leu Gly Leu Val Thr Pro His Lys Thr Glu Leu Val
 195 200 205

<210> 3
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 <212> DNA

<213> Mus musculus

<220>

<221> CDS

<222> (14)..(601)

<400> 3

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gcc tgc agc ctg gca ccc gcg atg gcg atg cgg gag gtg acg gtg gct      97
Ala Cys Ser Leu Ala Pro Ala Met Ala Met Arg Glu Val Thr Val Ala
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tgc tcc gag acc gcc gac ttg cct tgc aca gcg ccc tgg gac ccg cag     145
Cys Ser Glu Thr Ala Asp Leu Pro Cys Thr Ala Pro Trp Asp Pro Gln
              30              35              40

ctc tcc tat gca gtg tcc tgg gcc aag gtc tcc gag agt ggc act gag     193
Leu Ser Tyr Ala Val Ser Trp Ala Lys Val Ser Glu Ser Gly Thr Glu
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agt gtg gag ctc ccg gag agc aag caa aac agc tcc ttc gag gcc ccc     241
Ser Val Glu Leu Pro Glu Ser Lys Gln Asn Ser Ser Phe Glu Ala Pro
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agg aga agg gcc tat tcc ctg acg atc caa aac act acc atc tgc agc     289
Arg Arg Arg Ala Tyr Ser Leu Thr Ile Gln Asn Thr Thr Ile Cys Ser
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tcg ggc acc tac agg tgt gcc ctg cag gag ctc gga ggg cag cgc aac     337
Ser Gly Thr Tyr Arg Cys Ala Leu Gln Glu Leu Gly Gly Gln Arg Asn
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ttg agc ggc acc gtg gtt ctg aag gtg aca gga tgc ccc aag gaa gct     385
Leu Ser Gly Thr Val Val Leu Lys Val Thr Gly Cys Pro Lys Glu Ala
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Thr Glu Ser Thr Phe Arg Lys Tyr Arg Ala Glu Ala Val Leu Leu Phe
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gca cga cta caa agc att ttc cca gat att tct aaa cct ggt acg gaa     529
Ala Arg Leu Gln Ser Ile Phe Pro Asp Ile Ser Lys Pro Gly Thr Glu
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caa gct ttt ctt cca gtc acc tcc cca agc aaa cat ttg ggg cca gtg     577
Gln Ala Phe Leu Pro Val Thr Ser Pro Ser Lys His Leu Gly Pro Val
              175              180              185

acc ctt cct aag aca gaa acg gta tgagtaggat ctccactggt ttttacaag     631
Thr Leu Pro Lys Thr Glu Thr Val
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ccaagggcac atcagatcag tgtgcctgaa tgccacccgg acaagagaag aatgagctcc 691

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 <213> Mus musculus

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 Ala Asp Leu Pro Cys Thr Ala Pro Trp Asp Pro Gln Leu Ser Tyr Ala
 35 40 45

Val Ser Trp Ala Lys Val Ser Glu Ser Gly Thr Glu Ser Val Glu Leu
50 55 60

Pro Glu Ser Lys Gln Asn Ser Ser Phe Glu Ala Pro Arg Arg Arg Ala
65 70 75 80

Tyr Ser Leu Thr Ile Gln Asn Thr Thr Ile Cys Ser Ser Gly Thr Tyr
85 90 95

Arg Cys Ala Leu Gln Glu Leu Gly Gly Gln Arg Asn Leu Ser Gly Thr
100 105 110

Val Val Leu Lys Val Thr Gly Cys Pro Lys Glu Ala Thr Glu Ser Thr
115 120 125

Phe Arg Lys Tyr Arg Ala Glu Ala Val Leu Leu Phe Ser Leu Val Val
130 135 140

Phe Tyr Leu Thr Leu Ile Ile Phe Thr Cys Lys Phe Ala Arg Leu Gln
145 150 155 160

Ser Ile Phe Pro Asp Ile Ser Lys Pro Gly Thr Glu Gln Ala Phe Leu
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Thr Glu Thr Val
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<210> 5
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<212> DNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence: primer for CD83ext

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<210> 6
<211> 31
<212> DNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence: primer for CD83ext

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<210> 7
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<212> DNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence: partial
sequence of pGEX2ThCD83ext
<220>
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<222> (1)..(417)

<220>

<221> mat_peptide

<222> (28)..(417)

<400> 7

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gtg aag gtg gct tgc tcc gaa gat gtg gac ttg ccc tgc acc gcc ccc   96
Val Lys Val Ala Cys Ser Glu Asp Val Asp Leu Pro Cys Thr Ala Pro
              10                15                20

tgg gat ccg cag gtt ccc tac acg gtc tcc tgg gtc aag tta ttg gag  144
Trp Asp Pro Gln Val Pro Tyr Thr Val Ser Trp Val Lys Leu Leu Glu
              25                30                35

ggt ggt gaa gag agg atg gag aca ccc cag gaa gac cac ctc agg gga  192
Gly Gly Glu Glu Arg Met Glu Thr Pro Gln Glu Asp His Leu Arg Gly
              40                45                50                55

cag cac tat cat cag aag ggg caa aat ggt tct ttc gac gcc ccc aat  240
Gln His Tyr His Gln Lys Gly Gln Asn Gly Ser Phe Asp Ala Pro Asn
              60                65                70

gaa agg ccc tat tcc ctg aag atc cga aac act acc agc tgc aac tcg  288
Glu Arg Pro Tyr Ser Leu Lys Ile Arg Asn Thr Thr Ser Cys Asn Ser
              75                80                85

ggg aca tac agg tgc act ctg cag gac ccg gat ggg cag aga aac cta  336
Gly Thr Tyr Arg Cys Thr Leu Gln Asp Pro Asp Gly Gln Arg Asn Leu
              90                95                100

agt ggc aag gtg atc ttg aga gtg aca gga tgc cct gca cag cgt aaa  384
Ser Gly Lys Val Ile Leu Arg Val Thr Gly Cys Pro Ala Gln Arg Lys
              105                110                115

gaa gag act ttt aag aaa tac aga gcg gag att tgagaattca tcgtgact  435
Glu Glu Thr Phe Lys Lys Tyr Arg Ala Glu Ile
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<210> 8

<211> 139

<212> PRT

<213> Artificial Sequence

<223> Description of Artificial Sequence: partial
sequence of pGEX2ThCD83ext

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Trp Asp Pro Gln Val Pro Tyr Thr Val Ser Trp Val Lys Leu Leu Glu
              25                30                35

Gly Gly Glu Glu Arg Met Glu Thr Pro Gln Glu Asp His Leu Arg Gly
              40                45                50                55

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Gln His Tyr His Gln Lys Gly Gln Asn Gly Ser Phe Asp Ala Pro Asn
60 65 70
Glu Arg Pro Tyr Ser Leu Lys Ile Arg Asn Thr Thr Ser Cys Asn Ser
75 80 85
Gly Thr Tyr Arg Cys Thr Leu Gln Asp Pro Asp Gly Gln Arg Asn Leu
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Ser Gly Lys Val Ile Leu Arg Val Thr Gly Cys Pro Ala Gln Arg Lys
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Glu Glu Thr Phe Lys Lys Tyr Arg Ala Glu Ile
120 125 130

<210> 9
<211> 435
<212> DNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence: partial
sequence of pGEX2ThCD83ext_mut129_CtoS
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gtg aag gtg gct tgc tcc gaa gat gtg gac ttg ccc tgc acc gcc ccc 96
Val Lys Val Ala Cys Ser Glu Asp Val Asp Leu Pro Cys Thr Ala Pro
10 15 20
tgg gat ccg cag gtt ccc tac acg gtc tcc tgg gtc aag tta ttg gag 144
Trp Asp Pro Gln Val Pro Tyr Thr Val Ser Trp Val Lys Leu Leu Glu
25 30 35
ggg ggt gaa gag agg atg gag aca ccc cag gaa gac cac ctc agg gga 192
Gly Gly Glu Glu Arg Met Glu Thr Pro Gln Glu Asp His Leu Arg Gly
40 45 50 55
cag cac tat cat cag aag ggg caa aat ggt tct ttc gac gcc ccc aat 240
Gln His Tyr His Gln Lys Gly Gln Asn Gly Ser Phe Asp Ala Pro Asn
60 65 70
gaa agg ccc tat tcc ctg aag atc cga aac act acc agc tgc aac tcg 288
Glu Arg Pro Tyr Ser Leu Lys Ile Arg Asn Thr Thr Ser Cys Asn Ser
75 80 85
ggg aca tac agg tgc act ctg cag gac ccg gat ggg cag aga aac cta 336
Gly Thr Tyr Arg Cys Thr Leu Gln Asp Pro Asp Gly Gln Arg Asn Leu
90 95 100
agt ggc aag gtg atc ttg aga gtg aca gga tcc cct gca cag cgt aaa 384
Ser Gly Lys Val Ile Leu Arg Val Thr Gly Ser Pro Ala Gln Arg Lys

105 110 115
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 Glu Glu Thr Phe Lys Lys Tyr Arg Ala Glu Ile
 120 125 130

<210> 10

<211> 139

<212> PRT

<213> Artificial Sequence

<223> Description of Artificial Sequence: partial
 sequence of pGEX2ThCD83ext_mut129_CtoS

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Val Lys Val Ala Cys Ser Glu Asp Val Asp Leu Pro Cys Thr Ala Pro
 10 15 20

Trp Asp Pro Gln Val Pro Tyr Thr Val Ser Trp Val Lys Leu Leu Glu
 25 30 35

Gly Gly Glu Glu Arg Met Glu Thr Pro Gln Glu Asp His Leu Arg Gly
 40 45 50 55

Gln His Tyr His Gln Lys Gly Gln Asn Gly Ser Phe Asp Ala Pro Asn
 60 65 70

Glu Arg Pro Tyr Ser Leu Lys Ile Arg Asn Thr Thr Ser Cys Asn Ser
 75 80 85

Gly Thr Tyr Arg Cys Thr Leu Gln Asp Pro Asp Gly Gln Arg Asn Leu
 90 95 100

Ser Gly Lys Val Ile Leu Arg Val Thr Gly Ser Pro Ala Gln Arg Lys
 105 110 115

Glu Glu Thr Phe Lys Lys Tyr Arg Ala Glu Ile
 120 125 130

<210> 11

<211> 32

<212> DNA

<213> Artificial Sequence

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<223> Description of Artificial Sequence: primer
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<400> 11

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32

<210> 12

<211> 66

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: primer

antisense-CD83extra_mutantCtoS

<400> 12

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ggggat 66